

CLAIMS

1. A modulation light source comprising a DBR laser having a DBR part, a phase part and a gain part; a light wavelength conversion device; and
5 control means,

wherein the control means functions for controlling at least one of the DBR part and the phase part for modulation using a current based on a PWM signal and

10 the gain part is a part to which a substantially constant current is supplied.

2. The modulation light source according to claim 1, wherein the control means functions for controlling the DBR part for modulation using the
15 current based on the PWM signal and the phase part is a part to which the substantially constant current is supplied.

3. The modulation light source according to claim 1, wherein the control means functions for
20 controlling both the DBR part and the phase part for modulation using the current based on the PWM signal.

4. An image display apparatus comprising:
the modulation light source according to claim
1; and

25 a light deflector.

5. An electrophotographic process image display apparatus comprising:

the modulation light source according to claim

1;

a light deflector; and

a photosensitive member.

5 6. A method of driving a modulation light source comprising a DBR laser having a DBR part, a phase part and a gain part, a light wavelength conversion device, and control means, comprising the steps of:

10 controlling at least one of the DBR part and the phase part for modulation using a current based on a PWM signal by the control means; and

supplying a substantially constant current to the gain part.

15 7. The method of driving a modulation light source according to claim 6, wherein the substantially constant current is supplied to the phase part.

20 8. The method of driving a modulation light source according to claim 6, wherein both the DBR part and the phase part are controlled for modulation using the current based on the PWM signal.